

# Work Order ID 148509

\*148509\*

Page 1

July 04, 2016 9:55:48 AM

Item ID: D117-762-011 Accept \*N900040100\* Setup Start \*NS1\*

Revision ID: Stop \*NS2\*

Item Name: Skidtube with Standard Wearplates Fits LH or RH

Start Date: 7/4/2016 Start Qty: 1.00 \*1\*

Required Date: 7/28/2016 Req'd Qty: 1.00 \*1\*

Cust Item ID:

Customer:

Reference:

Approvals: Process Plan: SG Date: 7/4/16 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start \*NR1\*

Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr     | Revision Nbr |  |  |  |  |  |  |  |  |
|--------------|--------------|--|--|--|--|--|--|--|--|
| IIN-D117-762 | E            |  |  |  |  |  |  |  |  |

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|-----|------------------|------|-------------|--|--|--|--|--|--|
| 100 | Document Control | 0.00 | JUL 08 2016 |  |  |  |  |  |  |
|-----|------------------|------|-------------|--|--|--|--|--|--|

\*100\*

|                               |                                                       |        |  |  |  |  |  |  |  |
|-------------------------------|-------------------------------------------------------|--------|--|--|--|--|--|--|--|
| DC                            | Memo                                                  | 0.25   |  |  |  |  |  |  |  |
| Doc.Control -USB or Paperwork | Photocopy bluefile & type labels per PPP D117-762-011 | CHG003 |  |  |  |  |  |  |  |

|     |          |      |  |  |  |  |  |  |  |
|-----|----------|------|--|--|--|--|--|--|--|
| 110 | Pick Kit | 0.00 |  |  |  |  |  |  |  |
|-----|----------|------|--|--|--|--|--|--|--|

\*110\*

|           |      |      |  |  |  |  |  |  |  |
|-----------|------|------|--|--|--|--|--|--|--|
| Packaging | Memo | 0.00 |  |  |  |  |  |  |  |
| Packaging |      |      |  |  |  |  |  |  |  |

|     |                                         |      |  |  |  |  |  |  |  |
|-----|-----------------------------------------|------|--|--|--|--|--|--|--|
| 120 | QC4- 100% Inspect kits for completeness | 0.00 |  |  |  |  |  |  |  |
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\*120\*

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|-----------------|------|------|--|--|--|--|--|--|--|
| QC              | Memo | 0.01 |  |  |  |  |  |  |  |
| Quality Control |      |      |  |  |  |  |  |  |  |

B143515

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/>                                                                                                                                                                                                                                          |                                      | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube <input type="checkbox"/></td> <td style="border: none;">Cross tube <input type="checkbox"/></td> <td style="border: none;">Water Jet <input type="checkbox"/></td> <td style="border: none;">Engineering <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Machining <input type="checkbox"/></td> <td style="border: none;">Small Fab <input type="checkbox"/></td> <td style="border: none;">Prod. Eng. Coord. <input type="checkbox"/></td> <td style="border: none;">Quality <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Thermoforming <input type="checkbox"/></td> <td style="border: none;">Finishing <input type="checkbox"/></td> <td style="border: none;">Rec/Store/Packaging <input type="checkbox"/></td> <td style="border: none;">Other <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Large Fab <input type="checkbox"/></td> <td style="border: none;">Composite <input type="checkbox"/></td> <td style="border: none;">Supplier <input type="checkbox"/></td> <td></td> </tr> </table> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                                                    |  | Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                     | Cross tube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cross tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Water Jet <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                          | Engineering <input type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Small Fab <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                  | Quality <input type="checkbox"/>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Finishing <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rec/Store/Packaging <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                | Other <input type="checkbox"/>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Composite <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Supplier <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                           |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Step #:                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MRB (QS1042) Approval |                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | Completed By<br><br><br>Lead hand / Supervisor<br>Approval Verification<br><br><br>QC / QA Coordinator<br>Approval |  |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
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| Root Cause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FAULT CATEGORY                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Environment <input type="checkbox"/><br>~Design <input type="checkbox"/><br>Doc/Data <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Pre <input type="checkbox"/><br>Material <input type="checkbox"/><br>Internal Transport <input type="checkbox"/><br>Tribal Knowledge <input type="checkbox"/><br>LOA <input type="checkbox"/><br>Substation <input type="checkbox"/><br>Past Expiry Date <input type="checkbox"/><br>Misidentified <input type="checkbox"/> | No Re-verification <input type="checkbox"/><br>Operator <input type="checkbox"/><br>Offset/Setup <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Training <input type="checkbox"/><br>Use for Testing <input type="checkbox"/><br>Poor Information <input type="checkbox"/><br>Rushing <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Past Due <input type="checkbox"/> | Pressure/Forced <input type="checkbox"/><br>Bending <input type="checkbox"/><br>Centre Not Concentric <input type="checkbox"/><br>Cracks <input type="checkbox"/><br>Crimp/Kink/Ripple/Wave <input type="checkbox"/><br>Cuffs <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Heat Treat <input type="checkbox"/><br>Wave/Twist in Tube <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/> |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Temperature/Cure <input type="checkbox"/><br>Set-up <input type="checkbox"/><br>BOM/Route <input type="checkbox"/><br>Broken/Damage/Defect <input type="checkbox"/><br>Inspection Incomplete/Unqualified <input type="checkbox"/><br>Contamination <input type="checkbox"/><br>Countersink <input type="checkbox"/><br>Cut Too Short <input type="checkbox"/><br>Instructions Incomplete/Unclear <input type="checkbox"/><br>Drill Holes <input type="checkbox"/> |                       |                                                                                                                    |  | Power Loss/Surge <input type="checkbox"/><br>Folio/Program <input type="checkbox"/><br>Grain <input type="checkbox"/><br>Weld <input type="checkbox"/><br>Wrong Stock Pulled <input type="checkbox"/><br>Out of Sequence <input type="checkbox"/><br>Off-set <input type="checkbox"/><br>Misabeled <input type="checkbox"/><br>Fit/Function <input type="checkbox"/><br>Misaligned/off center <input type="checkbox"/> |                                     |                                    |                                      | Positioned Wrong <input type="checkbox"/><br>Outside Dimensions <input type="checkbox"/><br>Over/Under tolerance <input type="checkbox"/><br>Part Incorrect <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Part Moved <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Misread <input type="checkbox"/><br>Turning Sequence <input type="checkbox"/> |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OTHER : <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                            |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |

# Work Order ID 148509

\*148509\*

Page 2

July 04, 2016 9:55:48 AM

Item ID: D117-762-011 Accept \*N900040100\* Setup Start \*NS1\*  
 Revision ID: Stop \*NS2\*  
 Item Name: Skidtube with Standard Wearplates Fits LH or RH  
 Start Date: 7/4/2016 Start Qty: 1.00 \*1\* Cust Item ID:  
 Required Date: 7/28/2016 Req'd Qty: 1.00 \*1\* Customer:  
 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description                                                  | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|---------------------------------------------------------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 130                            | Packaging                                                                 | 0.00                 |         |        |              |               |               |                  |                |
| *130*                          |                                                                           |                      |         |        |              |               |               |                  |                |
| Packaging                      | Memo                                                                      | 0.00                 |         |        |              |               |               |                  |                |
| Packaging                      | Identify and pack for shipping as per PPP D117-762-011<br>Location :FG081 |                      |         |        |              |               |               |                  |                |
|                                |                                                                           |                      |         |        |              |               |               |                  |                |
| 140                            | QC21- Final Inspection - Work Order Release                               | 0.00                 |         |        |              |               |               |                  |                |
| *140*                          |                                                                           |                      |         |        |              |               |               |                  |                |
| QC                             | Memo                                                                      | 0.02                 |         |        |              |               |               |                  |                |
| Quality Control                |                                                                           |                      |         |        |              |               |               |                  |                |

DAS  
27  
9-89

DAS  
28  
9-89

JUL 26 2016

DAS  
21  
9-89

JUL 26 2016

SU 7/26/16

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> |                                               | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube <input type="checkbox"/></td> <td style="border: none;">Cross tube <input type="checkbox"/></td> <td style="border: none;">Water Jet <input type="checkbox"/></td> <td style="border: none;">Engineering <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Machining <input type="checkbox"/></td> <td style="border: none;">Small Fab <input type="checkbox"/></td> <td style="border: none;">Prod. 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Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>          | Thermoforming <input type="checkbox"/>    | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/>               | Large Fab <input type="checkbox"/>  | Composite <input type="checkbox"/>           | Supplier <input type="checkbox"/>         |                                                |                                        |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                   | Engineering <input type="checkbox"/>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Handling/Pre <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Material <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Internal Transport <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Tribal Knowledge <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| LOA <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Substation <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Past Expiry Date <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Misidentified <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Pressure/Forced <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Bending <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Cracks <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Crimp/Kink/Ripple/Wave <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                |                                |                                        |                                          |                                     |                                   |                                      |                                  |                                  |                                     |                                        |                                     |                                 |                                             |                                                          |                                       |                                  |                                        |                                      |                                                |                                           |
| Heat Treat <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cut Too Short <input type="checkbox"/>                     | Mislabeled <input type="checkbox"/>                                                                                                                                                | Finish <input type="checkbox"/>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |                                 |                                   |                                              |                                       |                                        |                                     |                                       |                                      |                                    |                                          |                                             |                                           |                                           |                                    |                                              |                                              |                                     | 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                |                                |                                        |                                          |                                     |                                   |                                      |                                  |                                  |                                     |                                        |                                     |                                 |                                             |                                                          |                                       |                                  |                                        |                                      |                                                |                                           |
| Wave/Twist in Tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Instructions Incomplete/Unclear <input type="checkbox"/>   | Fit/Function <input type="checkbox"/>                                                                                                                                              | Misread <input type="checkbox"/>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                |                                |                                        |                                          |                                     |                                   |                                      |                                  |                                  |                                     |                                        |                                     |                                 |                                             |                                                          |                                       |                                  |                                        |                                      |                                                |                                           |
| Marks/Chatter <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drill Holes <input type="checkbox"/>                       | Misaligned/off center <input type="checkbox"/>                                                                                                                                     | Turning Sequence <input type="checkbox"/>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                |                                |                                        |                                          |                                     |                                   |                                      |                                  |                                  |                                     |                                        |                                     |                                 |                                             |                                                          |                                       |                                  |                                        |                                      |                                                |                                           |
| OTHER :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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# Picklist Print

July 04, 2016 9:55:53 AM

Page 1

Work Order ID: 148509

**\*148509\***

Parent Item: D117-762-011

**\*D117-762-011\***

Parent Item Name: Skidtube with Standard Wearplates Fits LH or RH

Start Date: 7/4/2016

Required Date: 7/28/2016

Start Qty: 1.00

Required Qty: 1.00

## Comments:

IPP Rev:A07.06.11New Issue EC  
 IPP Rev:B 08-02-22 change to revA DD verified by:ec  
 IPP Rev C 08.12.19 incorporated DSI9435 EC verified by:DD  
 IPP REV:D 13.11.14 IIN REV.C DD VERF:JLM IPP  
 REV:E 15.06.11 IIN REV.D DD VERF:JLM

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand  | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status            |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|-----------------|-------------|--------------|---------------|----------------|-------------------|
| D117-762-041                    |                        | Manufactured  | No          |                     |                  | 110             | Each               | 0.0000          | 1           | 1            |               |                | DAS<br>27<br>9-89 |
| <b>*D117-762-041*</b>           |                        |               |             |                     |                  |                 |                    |                 | **          |              |               | B 148515       |                   |
| Replacement Skidtube            |                        |               |             |                     |                  |                 |                    |                 |             |              |               |                |                   |
| D3512-041                       |                        | Manufactured  | No          |                     |                  | 110             | Each               | 14.0000         | 2           | 2            |               |                | DAS<br>6<br>9-89  |
| <b>*D3512-041*</b>              |                        |               |             |                     |                  |                 |                    |                 | **          |              |               |                | DAS<br>28<br>9-89 |
| Wearplate                       |                        |               |             |                     |                  |                 |                    |                 |             |              |               |                |                   |
|                                 |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |                   |
|                                 |                        |               |             | ST610               |                  | 14              |                    |                 |             |              |               |                |                   |
|                                 |                        |               |             | 142292              |                  | 14              |                    |                 |             |              |               |                |                   |
| AN6C51A                         |                        | Purchased     | No          |                     |                  | 110             | Each               | 12.0000         | 2           | 2            |               |                | DAS<br>6<br>9-89  |
| <b>*AN6C51A*</b>                |                        |               |             |                     |                  |                 |                    |                 | **          |              |               |                | DAS<br>28<br>9-89 |
| BOLT                            |                        |               |             |                     |                  |                 |                    |                 |             |              |               |                |                   |
|                                 |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |                   |
|                                 |                        |               |             | ST333               |                  | 12              |                    |                 |             |              |               |                |                   |
|                                 |                        |               |             | 134511              |                  | 12              |                    |                 |             |              |               |                |                   |
| D3864-1                         |                        | Manufactured  | No          |                     |                  | 110             | Each               | 35.0000         | 4           | 4            |               |                | DAS<br>6<br>9-89  |
| <b>*D3864-1*</b>                |                        |               |             |                     |                  |                 |                    |                 | **          |              |               |                | DAS<br>28<br>9-89 |
| Bushing                         |                        |               |             |                     |                  |                 |                    |                 |             |              |               |                |                   |
|                                 |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |                   |
|                                 |                        |               |             | ST055               |                  | 35              |                    |                 |             |              |               |                |                   |
|                                 |                        |               |             | 138204              |                  | 35              |                    |                 |             |              |               |                |                   |
|                                 |                        |               |             |                     |                  |                 |                    |                 |             |              |               |                |                   |

JUL 12 2016

**Picklist Print**

July 04, 2016 9:55:54 AM

Work Order ID: 148509

**\*148509\***

Parent Item: D117-762-011

**\*D117-762-011\***

Parent Item Name: Skidtube with Standard Wearplates Fits LH or RH

Start Date: 7/4/2016

Required Date: 7/28/2016

Start Qty: 1.00

Required Qty: 1.00

MS21043-6

Purchased

No

110

Each

79.0000

2

2

**\*MS21043-6\***

NUT

**\*\***

DAS  
28

Location

Loc Qty

Loc Code

|         |    |  |
|---------|----|--|
| FG      | 20 |  |
| 103693  | 20 |  |
| FP001   | 9  |  |
| m134365 | 5  |  |
| m134557 | 4  |  |
| ST302   | 50 |  |
| m134817 | 50 |  |

JUL 12 2016

DAS  
28  
9-30

DAS  
28  
9-30

## 5.0 PARTS LIST

## 5.1 D117-762-011 Skidtube Parts List

| Item | Qty<br>-011 | Qty<br>-041 | Part Number         | Description              |
|------|-------------|-------------|---------------------|--------------------------|
|      | X           |             | D117-762-011        | SKIDTUBE INSTALLATION    |
|      | 1           | X           | D117-762-041        | REPLACEMENT SKIDTUBE     |
| 1    |             | 1           | D3582-041           | SKIDTUBE ASSEMBLY        |
| 2    | 2           |             | **1121-51002        | SKID SHOE                |
| 3    | 2           |             | **1121-51102        | CLAMPING RING            |
| 4    | 8           |             | **LN9380M8X45       | HEXAGON BOLT             |
| 5    | 8           |             | **LN9023A8-1.4544.9 | LOCKING WASHER           |
| 6    | 8           |             | **LN9025-0815K      | WASHER (OR LN9025-0815L) |
| 10   |             | 1           | *D2965              | CAP                      |
| 11   |             | 2           | ***AELS-1032-225    | INSERT                   |
| 12   |             | 2           | *AN3C5A             | BOLT                     |
| 13   |             | 2           | *NAS1149C0332R      | WASHER (OR AN960C10L)    |
| 20A  |             | 1           | *D3508-9            | WEARPLATE                |
| 20B  |             | 1           | *D3558-9            | GASKET                   |
| 21A  |             | 1           | *D3508-3            | WEARPLATE                |
| 21B  |             | 1           | *D3558-3            | GASKET                   |
| 22A  |             | 1           | *D3508-11           | WEARPLATE                |
| 22B  |             | 1           | *D3558-11           | GASKET                   |
| 23A  |             | 1           | *D3508-13           | WEARPLATE                |
| 23B  |             | 1           | *D3558-13           | GASKET                   |
| 24   |             | 36          | *AELS-1032-130      | INSERT                   |
| 25   | 8           | 28          | *AN3C4A             | BOLT                     |
| 26   | 8           | 28          | *NAS1149C0332R      | WASHER (OR AN960C10L)    |
| 27   | 2           |             | D3512-041           | WEARPLATE                |
| 30   |             | 2           | *AELS-1032-130      | INSERT                   |
| 31   |             | 2           | *AN3C4A             | BOLT                     |
| 32   |             | 2           | *NAS1149C0332R      | WASHER (OR AN960C10L)    |
| 50   | 2           |             | AN6C51A             | BOLT                     |
| 51   | 4           |             | D3864-1             | BUSHING                  |
| 52   | 2           |             | MS21043-6           | NUT                      |

\* PART IS INCLUDED WITH D3582-041 SKIDTUBE ASSEMBLY

\*\* TO BE SUPPLIED BY CUSTOMER, LISTED AS REFERENCE ONLY

\*\*\* DENOTES PART IS INCLUDED WITH ASSEMBLY ABOVE